

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of: Poonam Agarwal, *et al.*

Serial No.: 09/713,601

Group No.: 1637

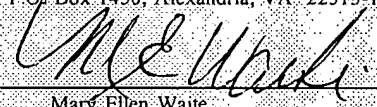
Filed: 11/15/2000

Examiner: Kim

Entitled: **Methods And Compositions For Detecting Target Sequences**

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David A. Casimir  
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Mary Ellen Waite

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The citations listed below, copies attached, may be material to the examination of the above-identified application, and are therefore submitted in compliance with the duty of disclosure defined in 37 C.F.R. §§ 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application.


- Hessner *et al.*, Genotyping of Factor V G1691A (Leiden) without the Use of PCR by Invasive Cleavage of Oligonucleotide Probes, *Clinical Chemistry* 46:1051-1056 (2000)
- Lyamichev *et al.*, Experimental and Theoretical Analysis of the Invasive Signal Amplification Reaction, *Biochemistry* 39:9523-9532 (2000)
- Neri *et al.*, Transferring Automation for Large-scale Development and Production of Invader™ SNP Assays, *Progress in Biomedical Optics* 1:117-125 (2000)

- Newlin *et al.*, The Invader Assay: An Alternative To PCR-Based Testing For The Detection Of Point Mutations Associated With Venous Thrombosis, *Clinical Hemostasis Review*, 14:10-12 (2000)
- Hall *et al.*, Sensitive detection of DNA polymorphisms by the serial invasive signal amplification reaction, *PNAS* 97:8272-8277 (2000)
- Ledford *et al.*, A Multi-Site Study for Detection of the Factor V (Leiden) Mutation from Genomic DNA Using a Homogeneous Invader Microtiter Plate Fluorescence Resonance Energy Transfer (FRET) Assay, *J. Molecular Diagnostics* 2:97-104 (2000)
- Ma *et al.*, RNA Template-dependent 5' Nuclease Activity of *Thermus aquaticus* and *Thermus thermophilus* DNA Polymerases, *J. Biol.Chem.*, 275:24693-24700 (2000)
- Fors *et al.*, Large-scale SNP scoring from unamplified genomic DNA, *Pharmacogenomics* 1(2):219-229 (2000)
- Agarwal *et al.*, Comparison Study For Identifying Promoter Allelic Polymorphism in Interleukin 10 and Tumor Necrosis Factor  $\alpha$  Genes, *Diagn Mol Pathol* 9(3):158-164 (2000)
- Cooksey *et al.*, Evaluation of the Invader Assay, a Linear Signal Amplification Method, for Identification of Mutations Associated with Resistance to Rifampin and Isoniazid in *Mycobacterium tuberculosis*, *Antimicrobial Agents and Chemotherapy*, 44:1296-1301 (2000)
- Mein *et al.*, Evaluation of Single Nucleotide Polymorphism Typing with Invader or PCR Amplicons and Its Automation, *Genome Research* 10:330-343 (2000)
- Lieder, Excitement Builds in Molecular Biology, *Advance for Administrators of the Laboratory* 50-52 (1999)
- Lieder, Invader Technology Provides Alternative to PCR, *Advance for Administrators of the Laboratory*, 70-71 (2000)
- Treble *et al.*, Invader ® technology for SNP detection, *Gene & Medicine* 4:68-72 (2000)

- Kwiatkowski *et al.*, Clinical, Genetic, and Pharmacogenetic Applications of the Invader Assay, *Molecular Diagnosis*, 4:353-364 (1999)
- Check, Labs home in on mutant alleles, *College of American Pathologists Today*, 1-5 September (1999)
- Griffin *et al.*, Direct genetic analysis by matrix-assisted laser desorption/ionization mass spectrometry, *PNAS* 96:6301-6306 (1999)
- Ryan *et al.*, Non-PCR-Dependent Detection of the Factor V Leiden Mutation From Genomic DNA Using a Homogeneous Invader Microtiter Plate Assay, *Molecular Diagnosis*, 4:135-144 (1999)
- Kaiser *et al.*, A Comparison of Eubacterial and Archaeal Structure-specific 5'-Exonucleases, *J. Biol. Chem.*, 274:21387-21394 (1999)
- Lyamichev *et al.*, Polymorphism identification and quantitative detection of genomic DNA by invasive cleavage of oligonucleotide probes, *Nature Biotech.* 17:292-296-(1999)
- Harrington, The Characterization of the Fen-1 Family of Structure-Specific Endonucleases: Implications For DNA Replication, Recombination, And Repair, Dissertation submitted to the Program in Cancer Biology and the Committee on Graduate Studies of Stanford University (1994)
- DeFrancesco, The Next New Wave in Genome Analysis, *The Scientist*, 12(21):1-3 (1998)

This Information Disclosure Statement under 37 C.F.R. §§ 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

Dated: 5/12/04

  
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Attorney Docket No.: FORS-04905

Serial No.: 09/713,601

**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**  
(Use Several Sheets If Necessary)Applicant: Poonam Agarwal *et al.*

(37 CFR § 1.98(b))

Filing Date: 11/15/2000

Group Art Unit: 1645

**OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)**

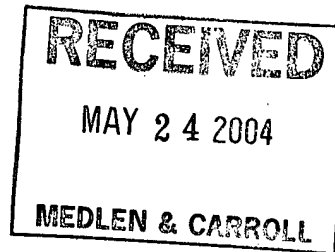
1	Hessner <i>et al.</i> , Genotyping of Factor V G1691A (Leiden) without the Use of PCR by Invasive Cleavage of Oligonucleotide Probes, <i>Clinical Chemistry</i> 46:1051-1056 (2000)
2	Lyamichev <i>et al.</i> , Experimental and Theoretical Analysis of the Invasive Signal Amplification Reaction, <i>Biochemistry</i> 39:9523-9532 (2000)
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5	Hall <i>et al.</i> , Sensitive detection of DNA polymorphisms by the serial invasive signal amplification reaction, <i>PNAS</i> 97:8272-8277 (2000)
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8	Fors <i>et al.</i> , Large-scale SNP scoring from unamplified genomic DNA, <i>Pharmacogenomics</i> 1(2):219-229 (2000)
9	Agarwal <i>et al.</i> , Comparison Study For Identifying Promoter Allelic Polymorphism in Interleukin 10 and Tumor Necrosis Factor $\alpha$ Genes, <i>Diagn Mol Pathol</i> 9(3):158-164 (2000)
10	Cooksey <i>et al.</i> , Evaluation of the Invader Assay, a Linear Signal Amplification Method, for Identification of Mutations Associated with Resistance to Rifampin and Isoniazid in <i>Mycobacterium tuberculosis</i> , <i>Antimicrobial Agents and Chemotherapy</i> , 44:1296-1301 (2000)
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13	Lieder, Invader Technology Provides Alternative to PCR, <i>Advance for Administrators of the Laboratory</i> , 70-71 (2000)
14	Treble <i>et al.</i> , Invader® technology for SNP detection, <i>Gene &amp; Medicine</i> 4:68-72 (2000)
15	Kwiatkowski <i>et al.</i> , Clinical, Genetic, and Pharmacogenetic Applications of the Invader Assay, <i>Molecular Diagnosis</i> , 4:353-364 (1999)
16	Check, Labs home in on mutant alleles, <i>College of American Pathologists Today</i> , 1-5 September (1999)
17	Griffin <i>et al.</i> , Direct genetic analysis by matrix-assisted laser desorption/ionization mass spectrometry, <i>PNAS</i> 96:6301-6306 (1999)
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19	Kaiser <i>et al.</i> , A Comparison of Eubacterial and Archaeal Structure-specific 5'-Exonucleases, <i>J. Biol. Chem.</i> , 274:21387-21394 (1999)
20	Lyamichev <i>et al.</i> , Polymorphism identification and quantitative detection of genomic DNA by invasive cleavage of oligonucleotide probes, <i>Nature Biotech.</i> 17:292-296 (1999)
21	Harrington, The Characterization of the Fen-1 Family of Structure-Specific Endonucleases: Implications For DNA Replication, Recombination, And Repair, Dissertation submitted to the Program in Cancer Biology and the Committee on Graduate Studies of Stanford University (1994)
22	DeFrancesco, The Next New Wave in Genome Analysis, <i>The Scientist</i> , 12(21):1-3 (1998)

Examiner:

Date Considered:

**EXAMINER:** Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

4905



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Serial No.: 09/713,601

MC File No.: FORS-4905

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In The Matter of the Application Of: AGARWAL

Date Mailed: 5-12-04

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